

	1	Document ID	Issue Date	Title	Current OR	Inventor	PT
1		US 20060045343 A1	20060302	Sketch recognition and enhancement	382/186	Tremblay; Christopher Jason et al.	
2		US 20060026503 A1	20060202	Markup document appearance manager	715/513	Bartosh; David M. et al.	
3		US 20050262432 A1	20051124	Systems and methods for providing simultaneous access to documents	715/511	Wagner, Timothy A.	
14		US 7043529 B1	20060509	Collaborative development network for widely dispersed users and methods therefor	709/205	Simonoff; Adam J.	

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Relevance scale **1 Interactive Editing Systems: Part II**

 Norman Meyrowitz, Andries van Dam
 September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM PressFull text available:  [pdf\(9.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 A marking based interface for collaborative writing**

 Gary Hardock, Gordon Kurtenbach, William Buxton
 December 1993 **Proceedings of the 6th annual ACM symposium on User interface software and technology**

Publisher: ACM PressFull text available:  [pdf\(755.36 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 Understanding programs and interfaces: Answering why and why not questions in user interfaces**

 Brad A. Myers, David A. Weitzman, Andrew J. Ko, Duen H. Chau
 April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM PressAdditional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern applications such as Microsoft Word have many automatic features and hidden dependencies that are frequently helpful but can be mysterious to both novice and expert users. The "Crystal" application framework provides an architecture and interaction techniques that allow programmers to create applications that let the user ask a wide variety of questions about why things did and did not happen, and how to use the related features of the application without using natural language. A user ...

Keywords: help, natural programming, questions, why**4 A comparative study of man-machine interfaces in interactive systems**

 K. Maeda, Y. Miyake, J. Nievergelt, Y. Saito
 October 1984 **ACM SIGCHI Bulletin**, Volume 16 Issue 2

Publisher: ACM PressFull text available:  [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This study compares and assesses the quality of a number of man-machine interfaces in a sample of interactive systems chosen to represent a wide spectrum of different applications, including: text editors, information retrieval, data communication and processing utilities, and programming environments. The purpose of this study is to develop a check-list for comparing and assessing man-machine interfaces, and to illustrate this technique by means of examples. As a consequence of this approach we ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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6 Special issue: AI in engineering



D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

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7 Level II technical support in a distributed computing environment



Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available:  pdf(5.73 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

8 "Let's see your search-tool!"—collaborative use of tailored artifacts in groupware



Volker Wulf

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Publisher: ACM Press

Full text available:  pdf(1.99 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Groupware applications should be tailorable to fit the requirements of dynamically evolving and differentiated fields of application. To encourage individual and collaborative tailoring activities, applications should be tailorable on different levels of complexity. A search tool has been developed which offers different levels of tailoring complexity by means of hierarchically organized component languages. Users can create alternative search tools and compound components by themselves. Se ...

Keywords: annotation, exploration, groupware, learning, tailorability

9

Document Formatting Systems: Survey, Concepts, and Issues

Richard Furuta, Jeffrey Scofield, Alan Shaw
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: [pdf\(5.36 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 [A framework for shared applications with a replicated architecture](#)

Thomas Berlage, Andreas Genau
December 1993 **Proceedings of the 6th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: [pdf\(984.32 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: application framework, command objects, computer-supported cooperative work, history tree, selective undo and redo, user interface management system

11 [Optimizing encoding: Optimization of html automatically generated by wysiwyg programs](#)

Jacqueline Spiesser, Les Kitchen
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(129.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automatically generated HTML, as produced by WYSIWYG programs, typically contains much repetitive and unnecessary markup. This paper identifies aspects of such HTML that may be altered while leaving a semantically equivalent document, and proposes techniques to achieve optimizing modifications. These techniques include attribute re-arrangement via dynamic programming, the use of style classes, and dead-coderemoval. These techniques produce documents as small as 33% of original size. The size decre ...

Keywords: dynamic programming, haskell, html optimization, wysiwyg

12 [Anatomy of a native XML base management system](#)

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(300.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

13 [A Requirements to Test Tracking System \(RTTS\)](#)

Edward R. Rang, Karen H. Thelen
October 1985 **Proceedings of the 1985 ACM annual conference on The range of computing : mid-80's perspective: mid-80's perspective**

Publisher: ACM Press

Full text available: [pdf\(377.31 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

14 The case of the killer robot (part 2)



Richard G. Epstein

December 1994 **ACM SIGCAS Computers and Society**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.22 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)



15 Document detection: TIPSTER phase I final report

Bill Caid, Stephen Gallant, Joel Carleton, David Sudbeck

September 1993 **Proceedings of a workshop on held at Fredericksburg, Virginia: September 19-23, 1993**

Publisher: Association for Computational Linguistics

Full text available: [pdf\(1.84 MB\)](#) Additional Information: [full citation](#), [abstract](#)



During Phase I of the TIPSTER program, HNC developed a unique approach to machine learning of similarity of meaning. This approach, embodied in a system called "MatchPlus", exploits this learned similarity of meaning for concept-based text retrieval, routing and visualization of textual information. MatchPlus uses an information representation scheme called "context vectors" to encode similarity of usage. Key attributes of the context vector approach are as follows:• Words, documents, and q ...

16 Working out usability: Linking surface error characteristics to root problems in user-



based evaluation studies

Mark Springett

May 1998 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

Full text available: [pdf\(1.49 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



This paper reports a study of novice subjects using Word 5.1. for the Macintosh. In particular, user errors were analysed. The intention was to investigate the difficulty, that evaluators have in determining root error causes from surface characteristics. Errors made by subjects were examined and classified in phenotype and genotype categories[3]. An error was classified in a genotype category if it was felt that system had failed to support that particular user mental action. The utility of the ...

Keywords: action cycle, error studies, phenotypes/genotypes

17 Using metalevel techniques in a flexible toolkit for CSCW applications



Paul Dourish

June 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: [pdf\(292.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Ideally, software toolkits for collaborative applications should provide generic, reusable components, applicable in a wide range of circumstances, which software developers can assemble to produce new applications. However, the nature of CSCW applications and the mechanics of group interaction present a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure, below the level at which toolkits typically offer control. This article describe ...

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

18 A tour through cedar



Warren Teitelman

March 1984 **Proceedings of the 7th international conference on Software engineering**

Publisher: IEEE Press

Full text available:  pdf(2.08 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Repeat and predict—two keys to efficient text editing 

 Toshiyuki Masui, Ken Nakayama

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**

Publisher: ACM Press

Full text available:  pdf(733.24 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: PBD, PBE, dynamic macro creation, keyboard macro, predictive interface, programming by demonstration, programming by example, text editing

20 Technical Papers: A library of generic concepts for composing knowledge bases 

 Ken Barker, Bruce Porter, Peter Clark

October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

Publisher: ACM Press

Full text available:  pdf(190.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Building a knowledge base for a given domain traditionally involves a subject matter expert and a knowledge engineer. One of the goals of our research is to eliminate the knowledge engineer. There are at least two ways to achieve this goal: train domain experts to write axioms (*i.e.*, turn them into knowledge engineers) or create tools that allow users to build knowledge bases without having to write axioms. Our strategy is to create tools that allow users to build knowledge bases through ...

Keywords: knowledge engineering, knowledge reuse, ontologies

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1 Incremental document formatting

Pehong Chen, Michael A. Harrison, Ikuo Minakata

 January 2000 **Proceedings of the ACM conference on Document processing systems**
Publisher: ACM PressFull text available: [pdf\(631.10 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**2 Interactive Editing Systems: Part II**

Norman Meyrowitz, Andries van Dam

 September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Publisher: ACM PressFull text available: [pdf\(9.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 Fast detection of communication patterns in distributed executions**

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9 "Let's see your search-tool!"—collaborative use of tailored artifacts in groupware

 Volker Wulf

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Publisher: ACM Press

Full text available:  [pdf\(1.99 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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10 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann
December 2002 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(300.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

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13 Technical reports

 SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(5.28 MB\)](#) Additional Information: [full citation](#)

14 Multi-sensory browser and editor model

 James W. Ryder, Kanad Ghose

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  [pdf\(803.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: computer accessibility, computer human interface, multi-sensory user environments, multimedia, speech-enabled application model

15 Intermedia: The architecture and construction of an object-oriented hypemedia system and applications framework

 Norman Meyrowitz

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '86**, Volume 21 Issue 11

Publisher: ACM Press

Full text available:  pdf(1.96 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article presents a case study of the development of the Intermedia system, a large, object-oriented hypermedia system and associated applications development framework providing sophisticated document linkages. First it presents the educational and technological objectives underlying the project. Subsequent sections capture the process of developing the Intermedia product and detail its architecture and construction, concentrating on the areas in which object-oriented technology has ha ...

16 Using long runs as predictors of semantic coherence in a partial document retrieval system

Hyopil Shin, Jerrold F. Stach

April 2000 **NAACL-ANLP 2000 Workshop on Syntactic and semantic complexity in natural language processing systems - Volume 1**

Publisher: Association for Computational Linguistics

Full text available:  pdf(538.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We propose a method for dealing with semantic complexities occurring in information retrieval systems on the basis of linguistic observations. Our method follows from an analysis indicating that long runs of content words appear in a stopped document cluster, and our observation that these long runs predominately originate from the prepositional phrase and subject complement positions and as such, may be useful predictors of semantic coherence. From this linguistic basis, we test three statistic ...

17 Multimedia document presentation, information extraction, and document formation in MINOS: a model and a system

 S. Christodoulakis, M. Theodoridou, F. Ho, M. Papa, A. Pathria

December 1986 **ACM Transactions on Information Systems (TOIS)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available:  pdf(3.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

MINOS is an object-oriented multimedia information system that provides integrated facilities for creating and managing complex multimedia objects. In this paper the model for multimedia documents supported by MINOS and its implementation is described.

Described in particular are functions provided in MINOS that exploit the capabilities of a modern workstation equipped with image and voice input-output devices to accomplish an active multimedia document presentation and browsing within docu ...

18 Multi-level transaction management for complex objects: implementation, performance, parallelism

Gerhard Weikum, Christof Hasse

October 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 2 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(2.83 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Multi-level transactions are a variant of open-nested transactions in which the subtransactions correspond to operations at different levels of a layered system

architecture. They allow the exploitation of semantics of high-level operations to increase concurrency. As a consequence, undoing a transaction requires compensation of completed subtransactions. In addition, multi-level recovery methods must take into consideration that high-level operations are not necessarily atomic if multiple pages ...

Keywords: atomicity, complex objects, inter- and intratransaction parallelism, multi-level transactions, performance, persistence, recovery

19 Transparency and awareness in a real-time groupware system

 Michel Beaudouin-Lafon, Alain Karsenty

December 1992 **Proceedings of the 5th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available:  [pdf\(1.12 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article explores real-time groupware systems from the perspective of both the users and the designer. This exploration is carried out through the description of GroupDesign, a real-time multi-user drawing tool that we have developed. From the perspective of the users, we present a number of functionalities that we feel necessary in any real-time groupware system: Graphic & Audio Echo, Localization, Identification, Age, and History. From the perspective of the designer, we demonstra ...

20 Designing object-oriented synchronous groupware with COAST

 Christian Schuckmann, Lutz Kirchner, Jan Schümmer, Jörg M. Haake

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  [pdf\(1.01 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: concurrency control, display updating, groupware, replicated objects, sessions, synchronous collaboration, toolkit

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